## INFORMATION DISCLOSURE CITATION.

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ATTY. DOCKET NO. 6510-173CON SERIAL NO.

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Raz et al.

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## U.S. PATENT DOCUMENTS

Examiner		Document Number	Date	Name	Class	Subclass	Filing Date
Initial							, , , , , , , , , , , , , , , , , , , ,
PAD	AA	1,234,718	Filed 90/15/69	Hilleman et al.			
PAC2	AB	3,725,545	04/03/73	Maes			
PA)	AC	3,906,092	09/16/75	Hilleman et al.		,	
RAO	AD	5,286,365	12/07/93	Rudolph et al.			
PAS	AE	5,276,019	01/04/94	Cohen et al.			
PAP	AF	5,278,302	01/11/94	Caruthers et al.			
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PAp	AJ	5,703,055	12/30/97	Felgner et al.			
RAD.	AK	5,968,909	10/19/99	Agrawal et al.			
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	<u></u>	Document Number	Data	Country	Class	Subcless	Translation
ρ40	AL	0 173 254	08/22/85	Europe			Yes No -
PAO	АМ	0 330 227	02/24/89	Europe			
pAo	AN	0 468 520 A2	01/29/92	Europe			
PAO	AO	WO 91/03251	03/21/91	PCT			
PAD	AP	WO 95/26204	10/05/95	PCT			
POD	AQ	WO96/02555	02/01/96	PCT			
RNO	AR	WO 98/10066	03/12/98	PCT			

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PAO	AT	WO98/37919	09/03/98	PCT	L				
PAO	AU	WO98/40100	09/17/98	РСТ					
PAO	ΑV	WO98/52581	11/26/98	PCT					
PAO	AW	WO 98/53075	11/26/98	PCT					
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OAO	AX	Ballas et al. (19 oligodeoxynucle	96) "Induction	n of NK Activity	in murine	and human Association	cells by C	pG Moti	fs in
pro	AY	Bennett et al. (1 Investigation."							linical
PAO.	AZ	Branch (1998)	Trends in Bioch	em. Sci., Vol. 2	3;45.50	<del></del>	<u> </u>		
pap	ВА	Branda et al. (1996) "Amplification of antibody production by phosphorothioate oligodeoxynucleotides" Mosby Year Book, Inc.							
PAO	ВВ	Corry et al. (1996) "Interleukin 4, but Not Interleukin 5 or Eosinophils, is required in a murine							
PAO,	BC	model of acute airway hyperreactivity." The Rockefeller University Press, Vol. 183.  Crooke (1998) "Antisense Research & Applications." Chapter 1:1-50							
	BD.	Davis et al. "Plasmid DNA is superior to viral vectors for direct gene transfer into adult mouse							
PAO	BE	skeletal muscle. Ewel et al. (1992	" Human Gene 2) "Polvinosin	: <i>Therapy,</i> Vol. 2 ic-Polycytidylic	ol. 4:733-740. Vic Acid complexed with Poly-L-lysine and				
PAO	-	carboxymethylco immunological	ellulose in com	ibination with i	nterleukin 2	! in patients	with cand	er: Clini	cal and
PAO	BF.	Feltquate et al. (1997) "Different T Helper Cell Types and Antibody isotypes generated by saline and gene gun DNA immunization." <i>The Journal of Immunology</i>							
· · · · · · · · · · · · · · · · · · ·	BG	Fuller et al. (1994) "A Qualitative Progression in HIV Type 1 Glycoprotein 120-Specific Cytotoxic Cellular and Humoral Immune Responses in Mice Receiving a DNA-Based				ic			
1240		Cytotoxic Cellula Glycoprotein 12	ar and Humora O Vaccine."  Al	il Immune Kest IDS Research ar	oonses in M Id Human Re	ice Receivin <sub>i</sub> etroviruses, V	g a DNA-E 'ol. 10	sased	
PPO	ВН	Hawkins et al. ( Research and De	1992) "Towar	d Genetically 1	argeted Re	search and	Therapeut	ics." Ar	ntisense
PAO	ВІ	Hohlfeld et al. (		nmunobiology	of Muscle."	Immunolo	gy Today,	Vol. 15.	
PAO	BJ	Iguchi-Ariga et al. (1989) "CpG methylation of the camp-responsive enhancer/promote sequence TGACGTCA abolishes specific factor binding as well as transcriptional activation."							
PAO.	вк	Genes & Development  Jachimczak et al. (1993) "the effect of transforming growth factor β <sub>2</sub> -specific phosphorothioate anti-sense oligodeoxynucleotides in reversing cellular immunosuppresion in malignant glioma." Journal of Neurosurgery, Vol. 78							
PAO	BL	Jyonouchi et al. Immunoglobulin	(1993) "Imm	nunomodulatin	g actions of				
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pao	BN	Kimura et al. (1994) "Binding of oligoguanylate to scavenger receptors is required for oligonucleotides to augment NK cell activity and induce IFN." Science, Vol. 116				
pao	В0	Klinman et al. (1997) "Contribution of CpG N The American Association of Immunologists, Vol	Motifs to the Immunoger . 158(8)	nicity of DNA Vaccines."		
PAD	BP	Krieg (1995) "CpG DNA: A Pathogenic Factor Clinical Immunology, Vol. 15				
PMO	BQ	Krieg et al. (1995) "CpG Motifs in bacterial I International Weekly Journal of Science, Vol. 652	22.			
mo	BR	Krieg et al. (1989) "A role for endogenous re lymphocyte activation." The Journal of Immuno	ology, Vol. 143			
CAR	BS	Krieg (1996) "Lymphocyte activation by CpG in Microbiology, Vol. 4(2)				
PAO	BT	Lee et al. (1996) "Inhibition of IgE Antibody formation by Plasmid DNA immunization is Mediated by Both CD4+ and CD8+ T Cells." <i>Int'l Archives of Allergy and Immunology</i> , Vol.113(13):227-30				
Pac	BU	Mader et al. (1993) "A steroid-inducible promoter for the controlled overexpression of cloned genes in eukarotic cells." <i>Biochemistry</i> , Vol. 90:5603-5607				
PAO	BV	Manickan et al. (1997) "Enhancement of Immune response to naked DNA Vaccine by Immunization with Transfected dendritic cells." Journal of Leukocyte Biology, Vol. 61				
RAD	BW	Messina et al. (1993) "The Influence of DNA structure in the in vitro simulation of murine lymphocytes by natural and synthetic polynucleotide antigens." Cellular Immunology, Vol. 147				
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PAO	BY	Mojcik et al. (1993) "Administration of a phosphorothicate oligonucleotide antisense to murine endogenous retroviral MCF env. Causes immune effects in vivo in a sequence-specific manner." Clinical Immunology and Immunopathology, Vol. 67				
PAP	BZ	Nakagawa et al. (1993) "Immunotherapy of A	Allergic Diseases." Int. A	·		
PAO	CA	Nishida et al. (1991) "Definition of GC-rich motif as regulatory sequence of the human IL-3 gene: coordinate regulation of the IL-3 gene by CLE2/GC box of the GM-CSF gene in T cell activation." International Immunology, Vol. 3				
የልነጋ.	СВ	Pardoll et al. "Exposing the Immunology of N 21205				
fao.	CC	Pisetsky et al. (1993) "Stimulation of murin- oligonucleotide with antisense activity for Her	pes Simplex Virus." Life	Sciences		
PAO	CD	Pisetsky et al. "Immunological Properties of Sciences, pg 152-163				
PAO	CE	Ramsay et al. (1994) "Enhancement of Muc Encoded in recombinant vaccine vectors." Re	eproduction, Fertility and I	Development		
PAD	CF	Raz et al. (1996) "Preferential induction of a Th1 immune response and inhibition of specific lgE antibody formation by plasmid DNA immunization." Proceedings of the National Academy of Sciences of the United States of America, Vol. 93(10)				
PAO.	CG	Raz et al. (1996) "Cytokines and Inflammate	ory Mediators." XP-0020	)58356 		

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PAO	СН						
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APO	CI	Sano et al. (1989) "Binding Properties of hulfragments." Immunology	man anti-DNA antibodie	s to cloned human DNA			
PAO	СК	Sato et al. (1996) "Immunostimulatory DNA Gene Immunization." Science, Vol. 273.	Sequences Necessary for	or Effective Intradermal			
PAO	CL	Schleimer et al. (1992) "IL-4 induces adhere neutrophils to endothelium." The Journal of Im		ils and basophils but not			
PAD	СМ	Secrist et al. (1993) "Allergen Immunotheral cells from Allergic Individuals." The Rockefelle	oy Decreases Interleukin	4 Production in CD4+ T			
PAO	CN	Sedegah et al. (1994) "Protection against mencoding circumsporozoite protein." Vol. 91:	alaria by immunization	with plasmid DNA			
RAN	co	Sparwasser et al. (1997) "Bacterial DNA cau	auses septic shock." Nature, Vol. 386(6623):336-				
PAO	CP	Tam et al. (1997) "Oligonucleotide mediated inhibition of CD28 expression induces human T cell hyporesponsiveness and manifests impaired contact hypersensitivity in mice." The Journal of Immunology, Vol. 158.					
pao	CQ	Tanaka et al. (1992) "An antisense oligonucleotide complementary to a sequence in lγ2b increases γ2b germline transcripts, stimulated B cell DNA Synthesis and Inhibits immunoglobulin secretion." The Journal of Experimental Medicine, Vol. 175					
PAO.	CR	Terr Allergy Desensitization, Chapter 56:739					
PAO	cs	Ulmer et al. (1993) "Heterologous Protection Against Influenza by injection of DNA encoding a viral protein." Science, Vol. 259					
PAD	СТ	Warren (1992) "Adjuvants" XP-002058362	<u> </u>				
PAO	CU	Xu et al. (1994) "Protection against leishman surface glycoprotein gp63 of L. Major." Immu		A encoding a major			
PNO	CV	Yakubov et al. (1989) "Mechanism of oligoni receptors?" Microbiol. Immunol., Vol. 38(10)					
Ras	CW	Yamamoto (1994) "Commemorative lecture of receiving Imamura Memorial Prize. II. Mode of action of oligonucleotide fraction extracted from Mycobacterium bovis BCG" Kekkaku (Japan), Vol. 69(9):571-4.					
PAO	СХ	Yamamoto et al. (1992) "Unique Palindromic sequences in synthetic oligonucleotides are required to induce INF and augment INF-Mediated natural killer activity." The Journal of Immunology, Vol. 148.					
PAO	CY	Yamamoto et al. (1994) "Ability of oligonucleotides with certain palindromes to induce interferon production and augment natural killer cell activity is associated with their base length." Antisense Research and Development					
PAO	CZ	Yamamoto (1994) "Lipofection of synthetic oligodeoxyribonucleotide having a palindromic sequence of AACGTT to Murine Splenocytes enhances interferon production and natural killer activity." Microbiol. Immuno., Vol. 38(10)					

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PAO	DA	Zhao et al. (1993) "Comparison of cellular binding and uptake of antisense phosphodiester, phosphothioate, and mixed phosphorothioate and methylphosphonate oligonucleotides." <i>Antisense Research and development</i> , Vol. 3				
POD	DB	Meeting Report, "International Meeting on the Nucleic Acid Vaccine for the prevention of Infectious Disease and Regulating Nucleic Acid (DNA) Vaccines." Natcher Conference Center NIH				
PAO	DC	Multi-Test Directions for Use, New York 11050				
200	DD (September 30, 1993) Biochemical and Biophysical Research Communication, Academic Press,					

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